GenCore version 4.5

OM protein - protein search, using sw model

Run on: June 18, 2001, 15:31:01 ; Search time 28.21 Seconds
(without alignments)
152.816 Million cell updates/sec

Title: US-09-653-755A-5
Perfect score: 1121
Sequence: 1 ENVLTQSPAIMSASPGEKVT.....EATHKTSTSPIVKSFNRNEC 214

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 193259 seqs, 20144635 residues

Total number of hits satisfying chosen parameters: 193259

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/2/iaa/5A_COMB.pep:*
2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*
3: /cgn2_6/ptodata/2/iaa/6A_COMB.pep:*
4: /cgn2_6/ptodata/2/iaa/6B_COMB.pep:*
5: /cgn2_6/ptodata/2/iaa/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/2/iaa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	1038.5	92.6	215	6	5455030-3	Patent No. 5455030
2	1004	89.6	213	2	US-08-737-129A-4	Sequence 4, Appli
3	979.5	87.4	235	2	US-08-303-569B-5	Sequence 5, Appli
4	979.5	87.4	235	2	US-08-116-247-5	Sequence 5, Appli
5	898.5	80.2	219	1	US-08-353-400-34	Sequence 34, Appl
6	898.5	80.2	239	1	US-08-353-400-37	Sequence 37, Appl
7	893	79.7	236	2	US-08-792-824-3	Sequence 3, Appli
8	893	79.7	236	2	US-08-792-824-9	Sequence 9, Appli
9	893	79.7	236	2	US-08-792-824-12	Sequence 12, Appl
10	892	79.6	215	2	US-08-737-129A-8	Sequence 8, Appli
11	882	78.7	218	5	PCT-US94-14106-57	Sequence 57, Appl
12	882	78.7	234	5	PCT-US94-07659-4	Sequence 4, Appli
13	852.5	76.0	238	4	US-09-192-545-4	Sequence 4, Appli
14	849	75.7	218	5	PCT-US94-14106-61	Sequence 61, Appl
15	842	75.1	233	2	US-08-792-824-6	Sequence 6, Appli
16	786	70.1	234	2	US-07-690-192-2	Sequence 2, Appli
17	772	68.9	206	6	5189147-9	Patent No. 5189147
18	729	65.0	213	3	US-08-630-820-6	Sequence 6, Appli
19	700.5	62.5	213	4	US-08-397-411-12	Sequence 12, Appl
20	691	61.6	218	2	US-08-887-352B-13	Sequence 13, Appl
21	691	61.6	218	3	US-08-466-151-9	Sequence 9, Appli
22	691	61.6	218	4	US-09-109-207C-13	Sequence 13, Appl
23	690	61.6	214	2	US-07-934-373C-39	Sequence 39, Appl
24	690	61.6	214	3	US-08-437-642B-39	Sequence 39, Appl
25	690	61.6	214	5	PCT-US93-07832-39	Sequence 39, Appl
26	690	61.6	234	4	US-09-049-672A-6	Sequence 6, Appli
27	689	61.5	214	2	US-07-934-373C-40	Sequence 40, Appl
28	689	61.5	214	2	US-08-788-800-11	Sequence 11, Appl
29	689	61.5	214	3	US-08-437-642B-40	Sequence 40, Appl
30	689	61.5	214	4	US-09-097-309-2	Sequence 2, Appli
31	689	61.5	214	4	US-09-097-171A-2	Sequence 2, Appli
32	689	61.5	214	5	PCT-US93-07832-40	Sequence 40, Appl
33	689	61.5	218	5	PCT-US96-13152-2	Sequence 2, Appli
34	689	61.5	233	2	US-07-934-373C-25	Sequence 25, Appl
35	689	61.5	233	3	US-08-437-642B-25	Sequence 25, Appl
36	689	61.5	233	5	PCT-US93-07832-25	Sequence 25, Appl
37	689	61.5	237	4	US-09-097-309-6	Sequence 6, Appli
38	689	61.5	237	4	US-09-097-171A-10	Sequence 10, Appl
39	689	61.5	237	4	US-09-422-712B-2	Sequence 2, Appli
40	688	61.4	218	2	US-08-887-352B-15	Sequence 15, Appl
41	688	61.4	218	2	US-08-887-352B-17	Sequence 17, Appl
42	688	61.4	218	2	US-08-887-352B-19	Sequence 19, Appl
43	688	61.4	218	2	US-08-887-352B-24	Sequence 24, Appl
44	688	61.4	218	4	US-09-109-207C-15	Sequence 15, Appl
45	688	61.4	218	4	US-09-109-207C-17	Sequence 17, Appl

ALIGNMENTS

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RESULT   1
5455030-3
;Patent No. 5455030
;    APPLICANT: LADNER, ROBERT C.;BIRD, ROBERT E.;HARDMAN, KARL
;    TITLE OF INVENTION: IMMUNOTHERAPHY USING SINGLE CHAIN
;POLYPEPTIDE BINDING MOLECULES
;    NUMBER OF SEQUENCES: 24
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/40,440
;      FILING DATE: 1-APR-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER: 512,910
;      FILING DATE: 25-APR-1990
;      APPLICATION NUMBER: 299,617
;      FILING DATE: 19-JAN-1989
;      APPLICATION NUMBER: 92,110
;      FILING DATE: 02-SEP-1987
;      APPLICATION NUMBER: 902,971
;      FILING DATE: 01-SEP-1986
;SEQ ID NO:3:
;       LENGTH: 215
5455030-3


  Query Match             92.6%;  Score 1038.5;  DB 6;  Length 215;
  Best Local Similarity   93.0%;  Pred. No. 1.5e-75;
  Matches  200;  Conservative   10;  Mismatches    4;  Indels    1;  Gaps    1;

Qy       1 ENVLTQSPAIMSASPGEKVTMTCRASSSVSSSYLHWYRQKSGASPKLWIYSTSNLASGVP 60
           ||||||||||||||||||||||||||||||||||::||||||||||||||||||||||
Db       1 ENVLTQSPAIMSASPGEKVTMTCRASSSVSSSYLHWFQQKSGASPKLWIYSTSNLASGVP 60

Qy      61 ARFSGSGSGTSYSLTISSVEAEDAATYYCQQYSGY-RTFGGGTKLEIKRADAAPTVSIFP 119
           |||||||||||||||||||||||||||||||||||  ||| |||||:||||||| |||||
Db      61 ARFSGSGSGTSYSLTISSVEAEDAATYYCQQYSGYPLTFGAGTKLELKRADAAPIVSIFP 120

Qy     120 PSSEQLTSGGASVVCFLNNFYPRDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSSTL 179
           ||||||||||||| ||::|||:||:||||||||||:||||||||||||||||||||||||
Db     121 PSSEQLTSGGASVVLFLDDFYPKDISVKWKIDGSERQDGVLNSWTDQDSKDSTYSMSSTL 180

Qy     180 TLTKDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 214
           ||||||||||:|||||||||||||||||||:||||
Db     181 TLTKDEYERHDSYTCEATHKTSTSPIVKSFDRNEC 215


RESULT   2
US-08-737-129A-4
; Sequence 4, Application US/08737129A
; Patent No. 5885816
;  GENERAL INFORMATION:
```

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;    APPLICANT:  Ikuo FUJII et al.
;    TITLE OF INVENTION:  CATALYTIC ANTIBODIES ENANTIOSELECTIVELY
;    TITLE OF INVENTION:  HYDROLYSING AMINO ACID ESTER DERIVATIVES
;    NUMBER OF SEQUENCES:  8
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Wenderoth, Lind & Ponack
;      STREET:  805 Fifteenth Street, N.W., #700
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette, 3.5 inch, 1.44 mb
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  MS-DOS
;      SOFTWARE:  Wordperfect 5.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/737,129A
;      FILING DATE:  No. 5885816ember 15, 1996
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Warren M. Cheek, Jr.
;      REGISTRATION NUMBER:  33,367
;      REFERENCE/DOCKET NUMBER:
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-371-8850
;      TELEFAX:
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  4:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  213 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-737-129A-4


  Query Match             89.6%;  Score 1004;  DB 2;  Length 213;
  Best Local Similarity   89.3%;  Pred. No. 7.9e-73;
  Matches  191;  Conservative    8;  Mismatches   13;  Indels    2;  Gaps    1;

Qy       1 ENVLTQSPAIMSASPGEKVTMTCRASSSVSSSYLHWYRQKSGASPKLWIYSTSNLASGVP 60
           | |:||:|||||||||||||||| ||||:  ||:|||:|| |  || ||| || | ||||
Db       1 ELVMTQTPAIMSASPGEKVTMTCSASSSI--SYMHWYQQKPGTPPKRWIYGTSKLTSGVP 58

Qy      61 ARFSGSGSGTSYSLTISSVEAEDAATYYCQQYSGYRTFGGGTKLEIKRADAAPTVSIFPP 120
           ||||||||||:||||||:|||||||||| | | | ||||||||||||||||||||||||||
Db      59 ARFSGSGSGTSFSLTISSMEAEDAATYYCHQRSSYPTFGGGTKLEIKRADAAPTVSIFPP 118

Qy     121 SSEQLTSGGASVVCFLNNFYPRDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSSTLT 180
           ||||||||||||||||||:|||||||||||||||||||||||||||||||||||||||||||
Db     119 SSEQLTSGGASVVCFLNNFYPKDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSSTLT 178

Qy     181 LTKDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 214
           |||||||||||||||||||||||||||||||||
Db     179 LTKDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 212


RESULT   3
US-08-303-569B-5
; Sequence 5, Application US/08303569B
; Patent No. 5859205
;  GENERAL INFORMATION:
;    APPLICANT:  Adair, John R.
;    APPLICANT:  Athwal, Diljeet S.
;    APPLICANT:  Emtage, John S.
;    TITLE OF INVENTION:  Humanised Antibodies
;    NUMBER OF SEQUENCES:  31
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Woodcock Washburn Kurtz Mackiewicz & No. 5859205ris
;      STREET:  One Liberty Place - 46th Floor
;      CITY:  Philadelphia
;      STATE:  PA
;      COUNTRY:  USA
;      ZIP:  19103
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/303,569B
;      FILING DATE:  07-SEP-1994
;      CLASSIFICATION:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Trujillo, Doreen Yatko
;      REGISTRATION NUMBER:  35,719
;      REFERENCE/DOCKET NUMBER:  CARP-0032
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (215) 568-3100
;      TELEFAX:  (215) 568-3439
;  INFORMATION FOR SEQ ID NO:  5:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  235 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-303-569B-5


  Query Match             87.4%;  Score 979.5;  DB 2;  Length 235;
  Best Local Similarity   89.2%;  Pred. No. 7.8e-71;
  Matches  190;  Conservative    6;  Mismatches   14;  Indels    3;  Gaps    2;

Qy       3 VLTQSPAIMSASPGEKVTMTCRASSSVSSSYLHWYRQKSGASPKLWIYSTSNLASGVPAR 62
           |||||||||||||||||||| |||||  ||::||:|||| ||| ||| || |||||||
Db      25 VLTQSPAIMSASPGEKVTMTCSASSSV--SYMNWYQQKSGTSPKRWIYDTSKLASGVPAH 82

Qy      63 FSGSGSGTSYSLTISSVEAEDAATYYCQQYSGYR-TFGGGTKLEIKRADAAPTVSIFPPS 121
           | |||||||||||| :|||||||||||:|    ||| |||||| ||| ||||||||||
Db      83 FRGSGSGTSYSLTISGMEAEDAATYYCQQWSSNPFTFGSGTKLEINRADTAPTVSIFPPS 142

Qy     122 SEQLTSGGASVVCFLNNFYPRDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSSTLTL 181
           ||||||||||||||||||:|||||||||||||||||||||||||||||||||||||||||||
Db     143 SEQLTSGGASVVCFLNNFYPKDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSSTLTL 202

Qy     182 TKDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 214
           |||||||||||||||||||||||||||||||||
Db     203 TKDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 235


RESULT   4
US-08-116-247-5
; Sequence 5, Application US/08116247
; Patent No. 5929212
;  GENERAL INFORMATION:
;    APPLICANT:  Jolliffe, Linda K.
;    APPLICANT:  Zivin, Robert A.
;    APPLICANT:  Adair, John R.
;    APPLICANT:  Athwal, Diljeet S.
;    TITLE OF INVENTION:  CD3 Specific Recombinant Antibody
;    NUMBER OF SEQUENCES:  29
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Woodcock Washburn Kurtz Mackiewicz & No. 5929212ris
;      STREET:  One Liberty Place - 46th Floor
;      CITY:  Philadelphia
;      STATE:  PA
;      COUNTRY:  USA
;      ZIP:  19103
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
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;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/116,247
;       FILING DATE:
;       CLASSIFICATION:  435
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/743,377
;       FILING DATE:  10-OCT-1991
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Paintin, Francis A.
;       REGISTRATION NUMBER:  19,386
;       REFERENCE/DOCKET NUMBER:  CARP-0011
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (215) 568-3100
;       TELEFAX:  (215) 568-3439
;   INFORMATION FOR SEQ ID NO:  5:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  235 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-08-116-247-5


  Query Match             87.4%;  Score 979.5;  DB 2;  Length 235;
  Best Local Similarity   89.2%;  Pred. No. 7.8e-71;
  Matches  190;  Conservative    6;  Mismatches   14;  Indels    3;  Gaps    2;

Qy       3 VLTQSPAIMSASPGEKVTMTCRASSSVSSSYLHWYRQKSGASPKLWIYSTSNLASGVPAR 62
           |||||||||||||||||||||| |||||  ||::||:|||| ||| ||| || |||||||
Db      25 VLTQSPAIMSASPGEKVTMTCSASSSV--SYMNWYQQKSGTSPKRWIYDTSKLASGVPAH 82

Qy      63 FSGSGSGTSYSLTISSVEAEDAATYYCQQYSGYR-TFGGGTKLEIKRADAAPTVSIFPPS 121
           | |||||||||||| :|||||||||||:|    ||| |||||| ||| ||||||||||
Db      83 FRGSGSGTSYSLTISGMEAEDAATYYCQQWSSNPFTFGSGTKLEINRADTAPTVSIFPPS 142

Qy     122 SEQLTSGGASVVCFLNNFYPRDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSSTLTL 181
           ||||||||||||||||||:|||||||||||||||||||||||||||||||||||||||||
Db     143 SEQLTSGGASVVCFLNNFYPKDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSSTLTL 202

Qy     182 TKDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 214
           |||||||||||||||||||||||||||||||||
Db     203 TKDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 235


RESULT   5
US-08-353-400-34
; Sequence 34, Application US/08353400
; Patent No. 5665357
;  GENERAL INFORMATION:
;    APPLICANT:
;    TITLE OF INVENTION:  PROTEINS
;    NUMBER OF SEQUENCES:  37
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25 (EPO)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/353,400
;      FILING DATE:
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9324819.3
;      FILING DATE:  03-DEC-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9411089.7
;      FILING DATE:  03-JUN-1994
;  INFORMATION FOR SEQ ID NO:  34:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  219 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-353-400-34


  Query Match             80.2%;  Score 898.5;  DB 1;  Length 219;
  Best Local Similarity   79.3%;  Pred. No. 1.9e-64;
  Matches  172;  Conservative   18;  Mismatches   22;  Indels    5;  Gaps    1;

Qy       3 VLTQSPAIMSASPGEKVTMTCRASSSVSSS-----YLHWYRQKSGASPKLWIYSTSNLAS 57
           |::|||: :: | ||||||:|::| |: :|     || ||:|: | |||| ||  |   |
Db       3 VMSQSPSSLAVSAGEKVTMSCKSSQSLLNSRTRKNYLAWYQQRPGQSPKLLIYWASTRTS 62

Qy      58 GVPARFSGSGSGTSYSLTISSVEAEDAATYYCQQYSGYRTFGGGTKLEIKRADAAPTVSI 117
           ||| ||:|||||| ::||||||:||| | |||:|    ||||||||||||||||||||||
Db      63 GVPDRFTGSGSGTDFTLTISSVQAEDLAIYYCKQSYTLRTFGGGTKLEIKRADAAPTVSI 122

Qy     118 FPPSSEQLTSGGASVVCFLNNFYPRDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSS 177
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Db     123 FPPSSEQLTSGGASVVCFLNNFYPKDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSS 182

Qy     178 TLTLTKDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 214
           |||||||||||||||||||||||||||||||||||||
Db     183 TLTLTKDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 219


RESULT   6
US-08-353-400-37
; Sequence 37, Application US/08353400
; Patent No. 5665357
;  GENERAL INFORMATION:
;    APPLICANT:
;    TITLE OF INVENTION:  PROTEINS
;    NUMBER OF SEQUENCES:  37
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25 (EPO)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/353,400
;      FILING DATE:
;      CLASSIFICATION:  424
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9324819.3
;      FILING DATE:  03-DEC-1993
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  GB 9411089.7
;      FILING DATE:  03-JUN-1994
;  INFORMATION FOR SEQ ID NO:  37:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  239 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-353-400-37


  Query Match             80.2%;  Score 898.5;  DB 1;  Length 239;
  Best Local Similarity   79.3%;  Pred. No. 2.2e-64;
  Matches  172;  Conservative   18;  Mismatches   22;  Indels    5;  Gaps    1;

Qy       3 VLTQSPAIMSASPGEKVTMTCRASSSVSSS-----YLHWYRQKSGASPKLWIYSTSNLAS 57
           |::|||: :: | ||||||:|::| |: :|     || ||:|: | |||| ||  |   |
Db      23 VMSQSPSSLAVSAGEKVTMSCKSSQSLLNSRTRKNYLAWYQQRPGQSPKLLIYWASTRTS 82

Qy      58 GVPARFSGSGSGTSYSLTISSVEAEDAATYYCQQYSGYRTFGGGTKLEIKRADAAPTVSI 117
           ||| ||:|||||| ::||||||:||| | |||:|    ||||||||||||||||||||||
Db      83 GVPDRFTGSGSGTDFTLTISSVQAEDLAIYYCKQSYTLRTFGGGTKLEIKRADAAPTVSI 142

Qy     118 FPPSSEQLTSGGASVVCFLNNFYPRDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSS 177
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          ||||||||||||||||||||||:||||||||||||||||||||||||||||||||||||
Db    143 FPPSSEQLTSGGASVVCFLNNFYPKDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSS 202

Qy    178 TLTLTKDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 214
          |||||||||||||||||||||||||||||||||||||
Db    203 TLTLTKDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 239


RESULT   7
US-08-792-824-3
; Sequence 3, Application US/08792824
; Patent No. 5932449
;  GENERAL INFORMATION:
;    APPLICANT:  EMANUEL, PETER A.
;    APPLICANT:  BURANS, JAMES P.
;    APPLICANT:  VALDES, JAMES J.
;    APPLICANT:  MOHYEE, ELDEFRAWI E.
;    TITLE OF INVENTION:  DETECTION OF BOTULINUM TOXIN
;    NUMBER OF SEQUENCES:  13
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  U.S. Army Chemical and Biological Defense
;      ADDRESSEE:  Command
;      STREET:  Office of the Chief Counsel, Bldg E4435
;      CITY:  Aberdeen Proving Ground
;      STATE:  MD
;      COUNTRY:  U.S.
;      ZIP:  21010-5423
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/792,824
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Biffoni, U. J.
;      REGISTRATION NUMBER:  39,908
;      REFERENCE/DOCKET NUMBER:  DAM 431-96
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  410-671-1158
;      TELEFAX:  410-671-2534
;  INFORMATION FOR SEQ ID NO:  3:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  236 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-792-824-3


  Query Match             79.7%;  Score 893;  DB 2;  Length 236;
  Best Local Similarity   80.7%;  Pred. No. 5.8e-64;
  Matches  171;  Conservative   17;  Mismatches   22;  Indels    2;  Gaps    2;

Qy      4 LTQSPAIMSASPGEKVTMTCRASSSVSSSYLHWYRQKSGASPKLWIYSTSNLASGVPARF 63
          :|||||  :||| || ||:||||| ::  :|| ||:|| | ||:| :|:   || |||:||
Db     26 MTQSPASLSASVGETVTITCRASGNI-HNYLAWYQQKQGKSPQLLVYNAKTLADGVPSRF 84

Qy     64 SGSGSGTSYSLTISSVEAEDAATYYCQQY-SGYRTFGGGTKLEIKRADAAPTVSIFPPSS 122
          ||||||| ||| |:|:: ||  :|||| : |   ||||||||||||||||||||||||||
Db     85 SGSGSGTQYSLKINSLQPEDFGSYYCQHFWSTPWTFGGGTKLEIKRADAAPTVSIFPPSS 144

Qy    123 EQLTSGGASVVCFLNNFYPRDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSSTLTLT 182
          ||||||||||||||||||:|||||||||||||||||||||||||||||||||||||||||||
Db    145 EQLTSGGASVVCFLNNFYPKDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSSTLTLT 204

Qy    183 KDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 214
          ||||||||||||||||||||||||||||||||
Db    205 KDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 236


RESULT   8
US-08-792-824-9
; Sequence 9, Application US/08792824
; Patent No. 5932449
;  GENERAL INFORMATION:
;    APPLICANT:  EMANUEL, PETER A.
;    APPLICANT:  BURANS, JAMES P.
;    APPLICANT:  VALDES, JAMES J.
;    APPLICANT:  MOHYEE, ELDEFRAWI E.
;    TITLE OF INVENTION:  DETECTION OF BOTULINUM TOXIN
;    NUMBER OF SEQUENCES:  13
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  U.S. Army Chemical and Biological Defense
;      ADDRESSEE:  Command
;      STREET:  Office of the Chief Counsel, Bldg E4435
;      CITY:  Aberdeen Proving Ground
;      STATE:  MD
;      COUNTRY:  U.S.
;      ZIP:  21010-5423
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/792,824
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Biffoni, U. J.
;      REGISTRATION NUMBER:  39,908
;      REFERENCE/DOCKET NUMBER:  DAM 431-96
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  410-671-1158
;      TELEFAX:  410-671-2534
;  INFORMATION FOR SEQ ID NO:  9:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  236 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-792-824-9


  Query Match             79.7%;  Score 893;  DB 2;  Length 236;
  Best Local Similarity   80.7%;  Pred. No. 5.8e-64;
  Matches  171;  Conservative   17;  Mismatches   22;  Indels    2;  Gaps    2;

Qy      4 LTQSPAIMSASPGEKVTMTCRASSSVSSSYLHWYRQKSGASPKLWIYSTSNLASGVPARF 63
          :|||||  :||| || ||:||||| ::  :|| ||:|| | ||:| :|:   || |||:||
Db     26 MTQSPASLSASVGETVTITCRASGNI-HNYLAWYQQKQGKSPQLLVYNAKTLADGVPSRF 84

Qy     64 SGSGSGTSYSLTISSVEAEDAATYYCQQY-SGYRTFGGGTKLEIKRADAAPTVSIFPPSS 122
          ||||||| ||| |:|:: ||  :|||| : |   ||||||||||||||||||||||||||
Db     85 SGSGSGTQYSLKINSLQPEDFGSYYCQHFWSTPWTFGGGTKLEIKRADAAPTVSIFPPSS 144

Qy    123 EQLTSGGASVVCFLNNFYPRDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSSTLTLT 182
          ||||||||||||||||||:|||||||||||||||||||||||||||||||||||||||||||
Db    145 EQLTSGGASVVCFLNNFYPKDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSSTLTLT 204

Qy    183 KDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 214
          ||||||||||||||||||||||||||||||||
Db    205 KDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 236


RESULT   9
US-08-792-824-12
; Sequence 12, Application US/08792824
; Patent No. 5932449
;  GENERAL INFORMATION:
;    APPLICANT:  EMANUEL, PETER A.
;    APPLICANT:  BURANS, JAMES P.
;    APPLICANT:  VALDES, JAMES J.
```

```
;    APPLICANT:  MOHYEE, ELDEFRAWI E.
;    TITLE OF INVENTION:  DETECTION OF BOTULINUM TOXIN
;    NUMBER OF SEQUENCES:  13
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  U.S. Army Chemical and Biological Defense
;      ADDRESSEE:  Command
;      STREET:  Office of the Chief Counsel, Bldg E4435
;      CITY:  Aberdeen Proving Ground
;      STATE:  MD
;      COUNTRY:  U.S.
;      ZIP:  21010-5423
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/792,824
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Biffoni, U. J.
;      REGISTRATION NUMBER:  39,908
;      REFERENCE/DOCKET NUMBER:  DAM 431-96
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  410-671-1158
;      TELEFAX:  410-671-2534
;  INFORMATION FOR SEQ ID NO:  12:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  236 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-792-824-12


  Query Match             79.7%;  Score 893;  DB 2;  Length 236;
  Best Local Similarity   80.7%;  Pred. No. 5.8e-64;
  Matches  171;  Conservative   17;  Mismatches   22;  Indels    2;  Gaps    2;

Qy       4 LTQSPAIMSASPGEKVTMTCRASSSVSSSYLHWYRQKSGASPKLWIYSTSNLASGVPARF 63
           :|||||  :||| || ||:||||| ::  :|| ||:|| | ||:| :|:   || |||:||
Db      26 MTQSPASLSASVGETVTITCRASGNI-HNYLAWYQQKQGKSPQLLVYNAKTLADGVPSRF 84

Qy      64 SGSGSGTSYSLTISSVEAEDAATYYCQQY-SGYRTFGGGTKLEIKRADAAPTVSIFPPSS 122
           ||||||| ||| |:|:: ||  :|||| : |   ||||||||||||||||||||||||||
Db      85 SGSGSGTQYSLKINSLQPEDFGSYYCQHFWSTPWTFGGGTKLEIKRADAAPTVSIFPPSS 144

Qy     123 EQLTSGGASVVCFLNNFYPRDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSSTLTLT 182
           ||||||||||||||||||:|||||||||||||||||||||||||||||||||||||||||||
Db     145 EQLTSGGASVVCFLNNFYPKDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSSTLTLT 204

Qy     183 KDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 214
           ||||||||||||||||||||||||||||||||
Db     205 KDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 236


RESULT  10
US-08-737-129A-8
; Sequence 8, Application US/08737129A
; Patent No. 5885816
;  GENERAL INFORMATION:
;    APPLICANT:  Ikuo FUJII et al.
;    TITLE OF INVENTION:  CATALYTIC ANTIBODIES ENANTIOSELECTIVELY
;    TITLE OF INVENTION:  HYDROLYSING AMINO ACID ESTER DERIVATIVES
;    NUMBER OF SEQUENCES:  8
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Wenderoth, Lind & Ponack
;      STREET:  805 Fifteenth Street, N.W., #700
;      CITY:  Washington
;      STATE:  D.C.
;      COUNTRY:  U.S.A.
;      ZIP:  20005
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Diskette, 3.5 inch, 1.44 mb
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  MS-DOS
;      SOFTWARE:  Wordperfect 5.1
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/737,129A
;      FILING DATE:  No. 5885816ember 15, 1996
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:
;      FILING DATE:
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Warren M. Cheek, Jr.
;      REGISTRATION NUMBER:  33,367
;      REFERENCE/DOCKET NUMBER:
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  202-371-8850
;      TELEFAX:
;      TELEX:
;  INFORMATION FOR SEQ ID NO:  8:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  215 amino acids
;      TYPE:  amino acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  peptide
US-08-737-129A-8


  Query Match             79.6%;  Score 892;  DB 2;  Length 215;
  Best Local Similarity   80.0%;  Pred. No. 6.2e-64;
  Matches  172;  Conservative   15;  Mismatches   26;  Indels    2;  Gaps    2;

Qy       1 ENVLTQSPAIMSASPGEKVTMTCRASSSVSSSYLHWYRQKSGASPKLWIYSTSNLASGVP 60
           | |:||:|: | || ||:||:||:||  : : || |::|| | |||  || |: |  |||
Db       1 ELVMTQTPSSMYASLGERVTITCKASQDI-NIYLSWFQQKPGKSPKALIYRTNGLVDGVP 59

Qy      61 ARFSGSGSGTSYSLTISSVEAEDAATYYCQQYSGY-RTFGGGTKLEIKRADAAPTVSIFP 119
           :||||||||  ||||||:| ||   ||| ||  :  ||||||||||||||||||||||||
Db      60 SRFSGSGSGQDYSLTISSLEYEDMGIYYCLQYDEFPYTFGGGTKLEIKRADAAPTVSIFP 119

Qy     120 PSSEQLTSGGASVVCFLNNFYPRDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSSTL 179
           ||||||||||||||||||:|||||||||||||||||||||||||||||||||||||||||||
Db     120 PSSEQLTSGGASVVCFLNNFYPKDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSSTL 179

Qy     180 TLTKDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 214
           ||||||||||||||||||||||||||||||||||
Db     180 TLTKDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 214


RESULT  11
PCT-US94-14106-57
; Sequence 57, Application PC/TUS9414106
;  GENERAL INFORMATION:
;    APPLICANT:
;    TITLE OF INVENTION:  Process for Generating Specific Antibodies
;    NUMBER OF SEQUENCES:  61
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  ASCII (text)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US94/14106
;      FILING DATE:
;      CLASSIFICATION:
;  INFORMATION FOR SEQ ID NO:  57:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  218 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
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PCT-US94-14106-57

Query Match 78.7%; Score 882; DB 5; Length 218;
Best Local Similarity 79.2%; Pred. No. 4e-63;
Matches 171; Conservative 14; Mismatches 27; Indels 4; Gaps 2;

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Qy       3 VLTQSPAIMSASPGEKVTMTCRASSSVSS---SYLHWYRQKSGASPKLWIYSTSNLASGV 59
           |:|||||  ::  |  |::  |::||   |||:   ||:|||:|| |  ||| |   ||| |||
Db       3 VMTQSPASLAVSLGQRATISCRVRQSVSTSSHSYMHWYQQKPGQPPKLLIKYASNLESGV 62

Qy      60 PARFSGSGSGTSYSLTISSVEAEDAATYYCQ-QYSGYRTFGGGTKLEIKRADAAPTVSIF 118
           ||||||||||| ::|  |   || || ||||||   :    ||||||||||||||||||||||
Db      63 PARFSGSGSGTDFTLNIHPVEEEDTATYYCQHSWEIPYTFGGGTKLEIKRADAAPTVSIF 122

Qy     119 PPSSEQLTSGGASVVCFLNNFYPRDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSST 178
           ||||||||||||||||||||:|||||||||||||||||||||||||||||||||||||||| |||
Db     123 PPSSEQLTSGGASVVCFLNNFYPKDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSRSST 182

Qy     179 LTLTKDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 214
           ||||||||||||||||||||||||||||||||||||
Db     183 LTLTKDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 218
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RESULT 12
PCT-US94-07659-4
; Sequence 4, Application PC/TUS9407659
; GENERAL INFORMATION:
; APPLICANT: Young, Peter
; APPLICANT: Gross, Mitchell
; APPLICANT: Jonak, Zdenka L.
; APPLICANT: Theisen, Timothy
; APPLICANT: Hurle, Mark
; APPLICANT: Jackson, Jeffrey R.
; TITLE OF INVENTION: Recombinant and Humanized Il-1 beta
; TITLE OF INVENTION: Antibodies for Treatment of Il-1 Mediated Inflammatory
; TITLE OF INVENTION: Disorders in Man
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SmithKline Beecham Corporation - Corp.
; ADDRESSEE: Intellectual Property
; STREET: 709 Swedeland Road
; CITY: King of Prussia
; STATE: PA
; COUNTRY: USA
; ZIP: 19406-2799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/07659
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/090,534
; FILING DATE: 09-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Sutton, Jeffrey A.
; REGISTRATION NUMBER: 34,028
; REFERENCE/DOCKET NUMBER: P50171-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (610) 270-5024
; TELEFAX: (610) 270-5090
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 234 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US94-07659-4

Query Match 78.7%; Score 882; DB 5; Length 234;
Best Local Similarity 79.7%; Pred. No. 4.3e-63;
Matches 169; Conservative 17; Mismatches 24; Indels 2; Gaps 2;

```
Qy       4 LTQSPAIMSASPGEKVTMTCRASSSVSSSYLHWYRQKSGASPKLWIYSTSNLASGVPARF 63
           :|||||  :|||  ||  ||:|||||  ::  :||  ||:||  |  ||:|  :|:   || |||:||
Db      24 MTQSPASLSASVGETVTITCRASGNI-HNYLTWYQQKQGKSPQLLVYNAKTLADGVPSRF 82

Qy      64 SGSGSGTSYSLTISSVEAEDAATYYCQQY-SGYRTFGGGTKLEIKRADAAPTVSIFPPSS 122
           |||||||  |||  |:|::  ||  :||||  :  |   ||||||||||  ||||||||||||||
Db      83 SGSGSGTQYSLKINSLQPEDFGSYYCQHFWSIPYTFGGGTKLEINRADAAPTVSIFPPSS 142

Qy     123 EQLTSGGASVVCFLNNFYPRDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSSTLTLT 182
           ||||||||||||||||||:|||||||||||||||||||||||||  ||||||||||||||
Db     143 EQLTSGGASVVCFLNNFYPKDINVKWKIDGSERQNGVLNSWTDQDRKDSTYSMSSTLTLT 202

Qy     183 KDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 214
           ||||||||||||||||||||||||||||||||
Db     203 KDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 234
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RESULT 13
US-09-192-545-4
; Sequence 4, Application US/09192545
; Patent No. 6118044
; GENERAL INFORMATION:
; APPLICANT: Karasuyama, Hajime
; APPLICANT: Yonekawa, Hiromichi
; APPLICANT: Taya, Choji
; APPLICANT: Matsuoka, Kunie
; TITLE OF INVENTION: Transgenic Animal Allergy Models and Methods for Their Use
; FILE REFERENCE: 799P79570
; CURRENT APPLICATION NUMBER: US/09/192,545
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: JP HEI 9-313989
; EARLIER FILING DATE: 1997-11-14
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 238
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE: Description of Artificial Sequence: Designed heavy
US-09-192-545-4

Query Match 76.0%; Score 852.5; DB 4; Length 238;
Best Local Similarity 76.0%; Pred. No. 9.7e-61;
Matches 165; Conservative 17; Mismatches 30; Indels 5; Gaps 2;

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Qy       3 VLTQSPAIMSASPGEKVTMTCRASSSV----SSSYLHWYRQKSGASPKLWIYSTSNLASG 58
           ::||:|  :  | |:: :::||:|:| |:     ::|| || || | |||| ||  ||  ||
Db      22 LMTQTPLSLPVSLGDQASISCRSSQSIVHSNGNTYLEWYLQKPGQSPKLLIYKVSNRFSG 81

Qy      59 VPARFSGSGSGTSYSLTISSVEAEDAATYYCQQYSGY-RTFGGGTKLEIKRADAAPTVSI 117
           || |||||||| ::| || |||||   ||| | |    ||| |||||:||||||||||
Db      82 VPDRFSGSGSGTDFTLKISRVEAEDLGVYYCFQGSHVPLTFGAGTKLELKRADAAPTVSI 141

Qy     118 FPPSSEQLTSGGASVVCFLNNFYPRDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSS 177
           |||||||||||||||||||||:|||||||||||||||||||||||||||||||||||||||
Db     142 FPPSSEQLTSGGASVVCFLNNFYPKDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSS 201

Qy     178 TLTLTKDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 214
           ||||||||||||||||||||||||||||||||||||
Db     202 TLTLTKDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 238
```

RESULT 14
PCT-US94-14106-61
; Sequence 61, Application PC/TUS9414106
; GENERAL INFORMATION:
; APPLICANT:

```
;    TITLE OF INVENTION:  Process for Generating Specific Antibodies
;    NUMBER OF SEQUENCES:  61
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  ASCII (text)
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  PCT/US94/14106
;      FILING DATE:
;      CLASSIFICATION:
;  INFORMATION FOR SEQ ID NO:  61:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  218 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
PCT-US94-14106-61


  Query Match             75.7%;  Score 849;  DB 5;  Length 218;
  Best Local Similarity   75.9%;  Pred. No. 1.7e-60;
  Matches  164;  Conservative   16;  Mismatches   32;  Indels    4;  Gaps    1;

Qy       3 VLTQSPAIMSASPGEKVTMTCRASSSV----SSSYLHWYRQKSGASPKLWIYSTSNLASG 58
           ||||:|  :  | | : :::||:| |:     ::||||| || | |||| ||  ||  ||
Db       3 VLTQTPLSLPVSLGGQASISCRSSQSLVHSNGNTYLHWYLQKPGQSPKLLIYKVSNRFSG 62

Qy      59 VPARFSGSGSGTSYSLTISSVEAEDAATYYCQQYSGYRTFGGGTKLEIKRADAAPTVSIF 118
           || ||||||||| ::| || |||||   |:| | :   ||| |||||:||||||||||||
Db      63 VPDRFSGSGSGTDFTLKISRVEAEDLGVYFCSQSTHVLTFGAGTKLELKRADAAPTVSIF 122

Qy     119 PPSSEQLTSGGASVVCFLNNFYPRDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSST 178
           ||||||||||||||| ||||||:|||||||||||||||||||||||||||||||| |||
Db     123 PPSSEQLTSGGASVVGFLNNFYPKDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSRSST 182

Qy     179 LTLTKDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 214
           ||||||||||||||||||||||||||||||||||||
Db     183 LTLTKDEYERHNSYTCEATHKTSTSPIVKSFNRNEC 218


RESULT  15
US-08-792-824-6
; Sequence 6, Application US/08792824
; Patent No. 5932449
;  GENERAL INFORMATION:
;    APPLICANT:  EMANUEL, PETER A.
;    APPLICANT:  BURANS, JAMES P.
;    APPLICANT:  VALDES, JAMES J.
;    APPLICANT:  MOHYEE, ELDEFRAWI E.
;    TITLE OF INVENTION:  DETECTION OF BOTULINUM TOXIN
;    NUMBER OF SEQUENCES:  13
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  U.S. Army Chemical and Biological Defense
;      ADDRESSEE:  Command
;      STREET:  Office of the Chief Counsel, Bldg E4435
;      CITY:  Aberdeen Proving Ground
;      STATE:  MD
;      COUNTRY:  U.S.
;      ZIP:  21010-5423
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/792,824
;      FILING DATE:
;      CLASSIFICATION:  435
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Biffoni, U. J.
;      REGISTRATION NUMBER:  39,908
;      REFERENCE/DOCKET NUMBER:  DAM 431-96
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  410-671-1158
;      TELEFAX:  410-671-2534
;  INFORMATION FOR SEQ ID NO:  6:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  233 amino acids
;      TYPE:  amino acid
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  protein
US-08-792-824-6


  Query Match             75.1%;  Score 842;  DB 2;  Length 233;
  Best Local Similarity   78.2%;  Pred. No. 6.4e-60;
  Matches  161;  Conservative   20;  Mismatches   23;  Indels    2;  Gaps    2;

Qy       4 LTQSPAIMSASPGEKVTMTCRASSSVSSSYLHWYRQKSGASPKLWIYSTSNLASGVPARF 63
           :|||||  :|||  || ||:|[|||  ::  :|| ||:|| | ||:|  :|:   || |||:||
Db      26 MTQSPASLSASVGETVTITCRASGNI-HNYLAWYQQKQGKSPQLLVYNAKTLADGVPSRF 84

Qy      64 SGSGSGTSYSLTISSVEAEDAATYYCQQY-SGYRTFGGGTKLEIKRADAAPTVSIFPPSS 122
           |||||||  ||| |:|:: ||  :|||| : |  ||||||||||||||||||||||||||
Db      85 SGSGSGTQYSLKINSLQPEDFGSYYCQHFWSTPWTFGGGTKLEIKRADAAPTVSIFPPSS 144

Qy     123 EQLTSGGASVVCFLNNFYPRDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSSTLTLT 182
           ||||||||||||||||||:|||||||||||||||||||||||||||||||||||||||||||
Db     145 EQLTSGGASVVCFLNNFYPKDINVKWKIDGSERQNGVLNSWTDQDSKDSTYSMSSTLTLT 204

Qy     183 KDEYERHNSYTCEATHKTSTSPIVKS 208
           |||||||||||||||||||||: ::
Db     205 KDEYERHNSYTCEATHKTSTSPLSRA 230


Search completed: June 18, 2001, 15:31:02
Job time: 95 sec
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